Abstract

A required valve timing change rate Vreq is calculated so
as to make a deviation D between a target valve timing VTtg and
an actual valve timing VT small and then a required speed difference

5   DMCRreq between a motor 26 and a camshaft 16 is calculated on a
basis of the required valve timing change rate Vreq. When the
deviation D is larger than a predetermined value, a required motor
speed Rmreq is calculated by adding the required speed difference
DMCRreq to a camshaft speed RC and a motor control value is calculated

10   so as to control the motor speed RM to the required motor speed
Rmreq. When the deviation D is not larger than the predetermined
value, the camshaft speed RC is set as the required motor speed
Rmreq and the motor control value is calculated so as to control
the motor speed RM to the camshaft speed RC.

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